

**TRANSMITTAL OF  
UTILITY  
APPLICATION  
UNDER 37  
C.F.R. §1.53**

Attorney Docket No.	24736-2073
Customer No.	24961
First Named Inventor	VAN DEN BOOM
Express Mail Label No.	EV 417728346 US
Date of Mailing	November 26, 2003

2388 U.S. PTO  
10/723365



**Application Elements**


1. ☒ Fee Transmittal Form
2. ☒ Specification containing 160 pages  
(including claims and Abstract).
  - a. Title: **FRAGMENTATION-BASED  
METHODS AND SYSTEMS FOR  
SEQUENCE VARIATION DETECTION  
AND DISCOVERY**
  - b. Number of claims: 73
3. ☒ 4 sheets of drawings with 1-4 Figure(s).
4. ☐ Unexecuted Declaration listing name of  
inventor(s).
5. ☒ Sequence Listing (41 pages):
  - ☒ Paper copy (identical to computer  
copy)
  - ☒ Computer readable copy
  - ☒ Verified Statement

**Accompanying Application Papers**

6. ☐ Copy of Assignments from prior  
application
7. ☒ Small Entity Status is claimed
8. ☐ Preliminary Amendment
9. ☒ Return Receipt Postcard

**SIGNATURE OF ATTORNEY/AGENT**

HELLER EHRMAN WHITE & McAULIFFE LLP

  
Stephanie Seidman  
Registration Number: 33,779

☒ Benefit of priority under 35 U.S.C. Section 119(e) is claimed to U.S. Provisional Application Serial No. 60/429,895, filed November 27, 2002. The subject matter of each of the Provisional applications is incorporated by reference in its entirety.

**CORRESPONDENCE ADDRESS**

NAME	Stephanie Seidman Registration No. 33,779 Heller Ehrman White & McAuliffe LLP	
Address	4350 La Jolla Village Drive, 7th Floor, San Diego, CA 92122-1246	
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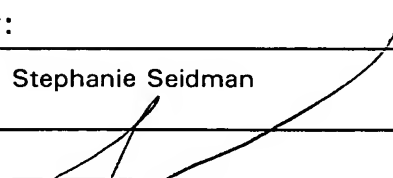
<b>FEE TRANSMITTAL ACCOMPANYING UTILITY APPLICATION UNDER 37 C.F.R. §1.53</b>	Attorney Docket No.	24736-2073
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### FEE CALCULATION FOR CLAIMS AS AMENDED

a)	Basic Fee		\$ <u>770.00</u>
b)	Independent Claims	$\frac{9}{- 3} = \frac{6}{x} \times \$ 86.00$	\$ <u>516.00</u>
c)	Total Claims	$\frac{73}{- 20} = \frac{53}{x} \times \$ 18.00$	\$ <u>954.00</u>
d)	Fee for Multiple Dependent Claims-	\$290.00	\$ <u>0.00</u>

**TOTAL FILING FEE**    \$ 2,240.00

- [X] Status as Small Entity is claimed, reducing Fee by one-half to    \$ 1,120.00.
- [X] A check in the amount of \$ 1,120.00 to cover the fee for filing the application.
- [ ] Charge \$ .00 to Deposit Account No. 50-1213.
- [X] The Commissioner is hereby authorized to charge any fees, including the filing fee and excess claims fee, that may be required in this application under 37 C.F.R. §§ 1.16-1.17 during its entire pendency, or credit any overpayment, to Deposit Account No. 50-1213. If proper payment is not enclosed, such as a check in the wrong amount, unsigned, post-dated, otherwise improper or informal, or absent, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-1213 during the entire pendency of this application. This sheet is filed in duplicate.

CORRESPONDENCE ADDRESS					
NAME	Stephanie Seidman Registration No. 33,779 Heller Ehrman White & McAuliffe LLP				
Address	4350 La Jolla Village Drive, 7th Floor, San Diego, CA 92122-1246				
	Telephone: (858) 450-8400			Facsimile: (858) 587-5360	
Submitted by:					
Typed or printed name	Stephanie Seidman			Reg. Number	33,779
Signature			Date	11/26/03	Deposit Account 50-1213